

# Tuan Anh Nguyen

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## EDUCATION

- VinUniversity** Hanoi, Vietnam  
*BSc. in Computer Science; GPA: 3.65* *September 2021 - (Expected) June 2025*

## WORK EXPERIENCE

- Information Security Lab, VinUniversity** On-site  
*Undergraduate Research Assistant* *Mar 2023 - Nov 2023*
  - Achieved a \$1000 research grant from VinUni Undergraduate Research grant for a research project on **Implementation of Lightweight Key Exchange on IoT devices**, under supervision of Professor Wong Kok-seng.
  - Conducted experiments on privacy-preserving protocols for including but not limited to Federated Learning & multiparty computation systems, which resulted in 01 published research papers.
- College of Engineering & Computer Science, VinUniversity** On-site  
*Undergraduate Research Assistant* *Mar 2023 - Nov 2023*
  - Conducted two independent study courses on Modern Cryptography under Professor Wray Buntine's supervision, with foundational topics of Cryptology.
  - Created "[CryptoBook for n00bles](#)" - a comprehensive Cryptography notes for beginners how to implement and attack cryptography algorithms.
  - Developed a Twitter Crawler with hashtag/keyword-based tweet crawling & user profile visualization features to analyze Twitter discussions about ChatGPT and other GPT models.
  - Successfully crawled more than one million tweets and more than ten thousand profiles within 01 month.
- Viettel Cyber Security** Hybrid  
*Vulnerability Research Intern* *Aug 2022 - Mar 2023*
  - Achieved distinction among 300+ candidates to secure a position as one of the top 25 interns in the batch, engaging in an intensive 6-month training program focused on mastering Reverse Engineering, Binary Exploitation, and other Exploit Development skills on x86-64 platforms.
  - Achieved the second highest rank out of 25 interns during CTF contests of VCS Academy Team.
- CyberKid Vietnam** Remote  
*Cybersecurity Instructor* *Nov 2022 - Feb 2023*
  - Collaborated with teams to create the syllabus, materials, and labs for a Programming and Cryptography course designed to educate children about Cyber Security.
  - Became the speaker in 03 seminars for young students about basic Cryptography & Exploit Development, which provided education on cybersecurity for 216 high school students.

## PROJECT

- VinUni Hacking Club**  
*Co-founder, President* *Mar 2022 - Present*
  - Organizers, DevSecOps Engineer & challenge authors of VinUni CTF - the annual capture-the-flag competition at VinUniversity. Attracted in total more than 150 students from VinUniversity & 07 other universities' computer security clubs.
  - Created an extensive training program which covers from foundational knowledge to advanced topics in cybersecurity for 13 VinUni Hacking Club's members.
  - Contributed to open-source CTFd platform by improving CTFd-Docker-Challenge plugin for managing isolated hacking platform via Docker images via secure TLS connection to Docker daemon, and additional integration Dynamic Value.
  - Contributed write-ups & challenges from VinUni CTF and other CTFs to VinUni Hacking Club GitHub repository
- VinUniversity Medical Dictionary - MedDict**  
*Backend Developer & DevOps Engineer* *Sept 2023 - Present*
  - Adopted & Developing the backend API for VinUniversity Medical Dictionary - MedDict - a project to support VinUniversity's College of Health Sciences students in learning medical terminology.
  - Developed a search engine API & Google Chrome plugin for searching medical terms efficiently with open-source illustration & text-to-speech of the terms, and a admin dashboard for managing the dictionary
  - Frequently used by more than 200 medical students in College of Health Sciences, VinUniversity.
- [my\\_rust\\_os](#)**  
*Developer* *July 2023 - October 2023*
  - An educational & hobby Operating System, written in Rust for the course "Course-related Project I" at VinUniversity.
  - Provided a simple file system, terminal-user-interface and some basic utilities by Rust programming language, with support of QEMU Emulator.

## ACHIEVEMENTS

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- **Top 05 Vietnam Student Representative - Global Cybersecurity Camp 2024**  
*Issued by VNSecurity Foundation* 2024
  - Selected as one of the top 05 Vietnam student representatives to participate in the Global Cybersecurity Camp 2024, an international bootcamp & hackathon about cybersecurity.
- **Finalists, ASEAN Student Contest on Information Security 2023**  
*Issued by Vietnam Information Security Association* 2023
  - Advances to the Final Round of ASEAN Student Contest on Information Security 2023. Ranked in top 25 over more than 100 teams in the competition.
- **Top 0.1% Best CTF Player on CryptoHack**  
*Issued by CryptoHack.org* 2023
  - Ranked in the top 94/100 on CryptoHack, demonstrating familiarity with cryptography algorithms and outstanding problem-solving skills.
- **Dean's List and VinUni Merit-based Scholarship**  
*Issued by VinUniversity* 2020 - 2022
  - For outstanding academic performance and contribution, three consecutive Dean's List awards were received, along with a merit-based scholarship for undergraduate studies covering 90% of tuition fees.

## PUBLICATION

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- **Towards Efficient Communication and Secure Federated Recommendation System via Low-rank Training**  
*Ngoc-Hieu Nguyen, Tuan-Anh Nguyen, Tuan Minh Nguyen, Vu Tien Hoang, Dung D. Le, Kok-seng Wong*  
*Accepted for ACM The Web Conference 2024*